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E D U C A T I O N A L
C H A R T S

Table of Contents:

1 Periods of armor.
2 Suit of armor: pts. named. Evolution of.
3 Helmets.
4 Breastplates.
5 Gauntlets.
6 Shields.
7 Swords.
8 Pole Arms.
9 Guns.
10 Crossbows.
11 Spurs.
12 Photos showing how a helmet is made.

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EUROPEAN ARMOR
AND ITS DEVELOPMENT
DURING A THOUSAND YEARS
FROM A.D. 650 TO 1650

BASHFORD DEAN, DIR.

HASHIME MURAYAMA, DEL.

366451

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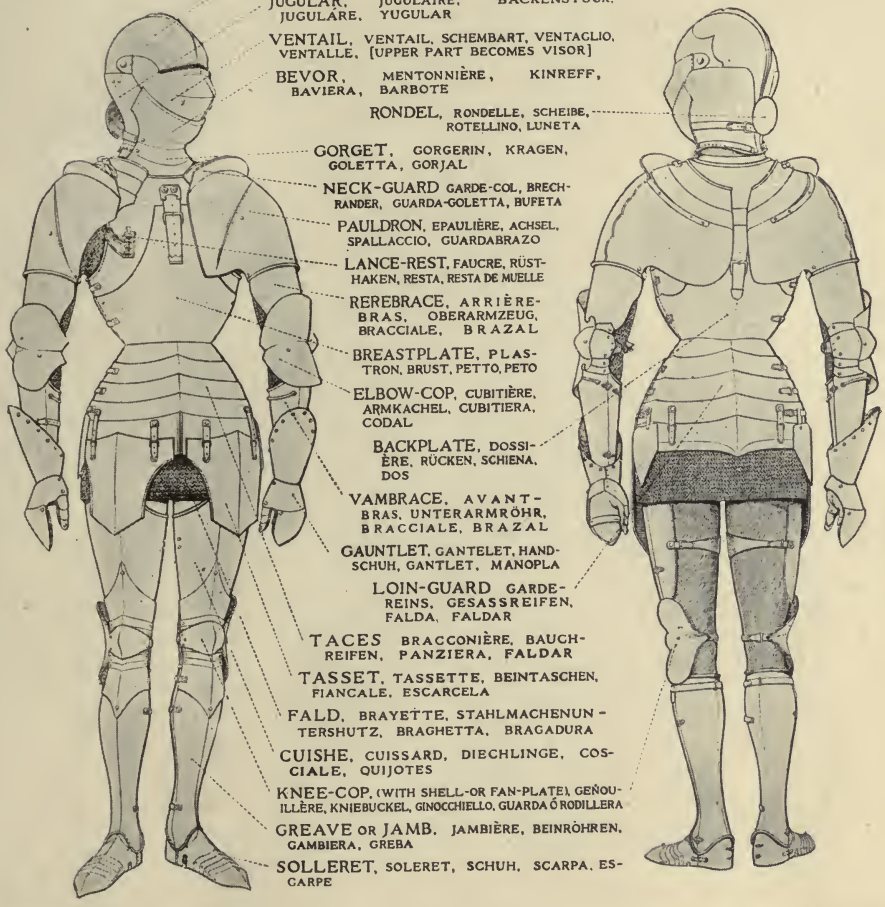
Court of Columbia



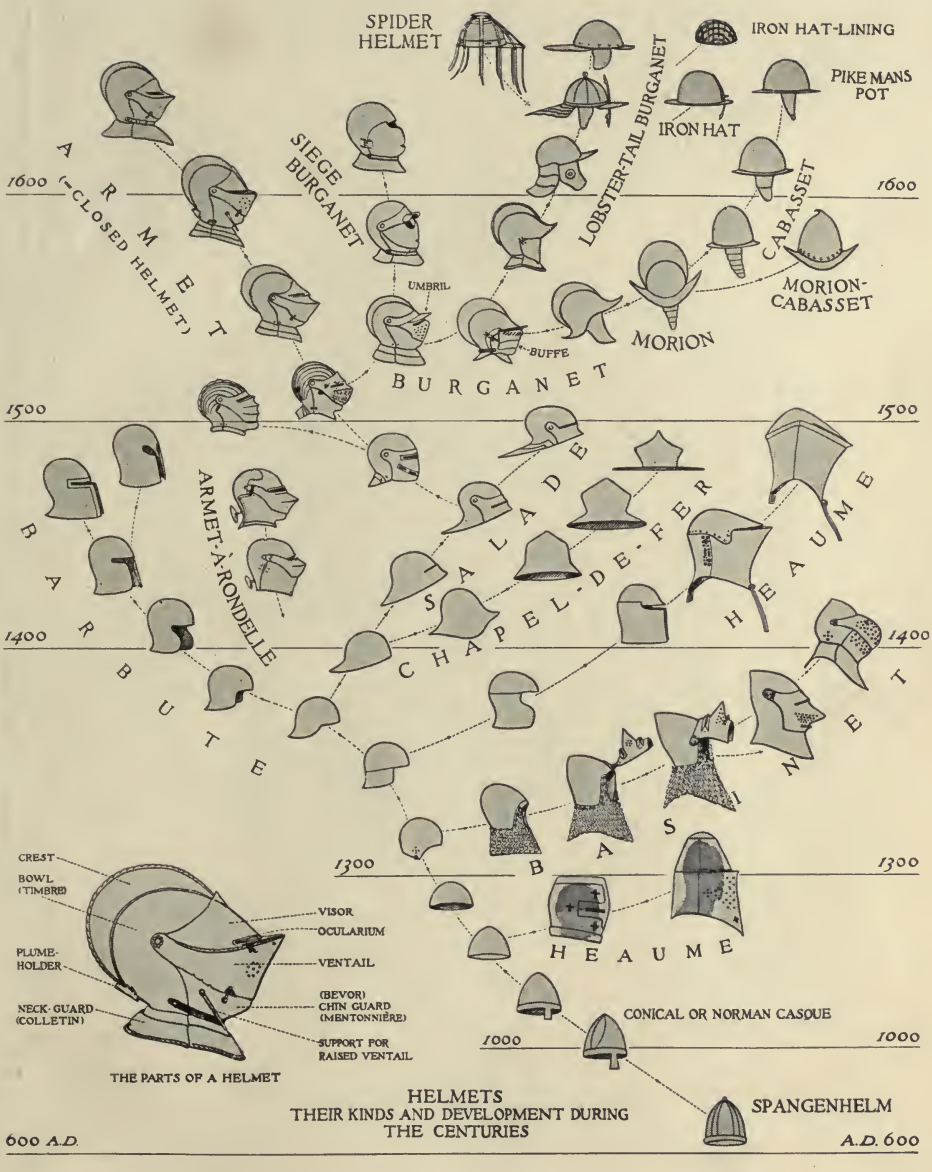
BASHFORD DEAN DIR.

STANLEY J. ROWLAND DEL.

A COMPLETE SUIT OF EUROPEAN ARMOR

(SECOND HALF OF FIFTEENTH CENTURY)

SHOWING ITS VARIOUS PARTS AND GIVING THEIR NAMES IN ENGLISH, FRENCH, GERMAN, ITALIAN AND SPANISH

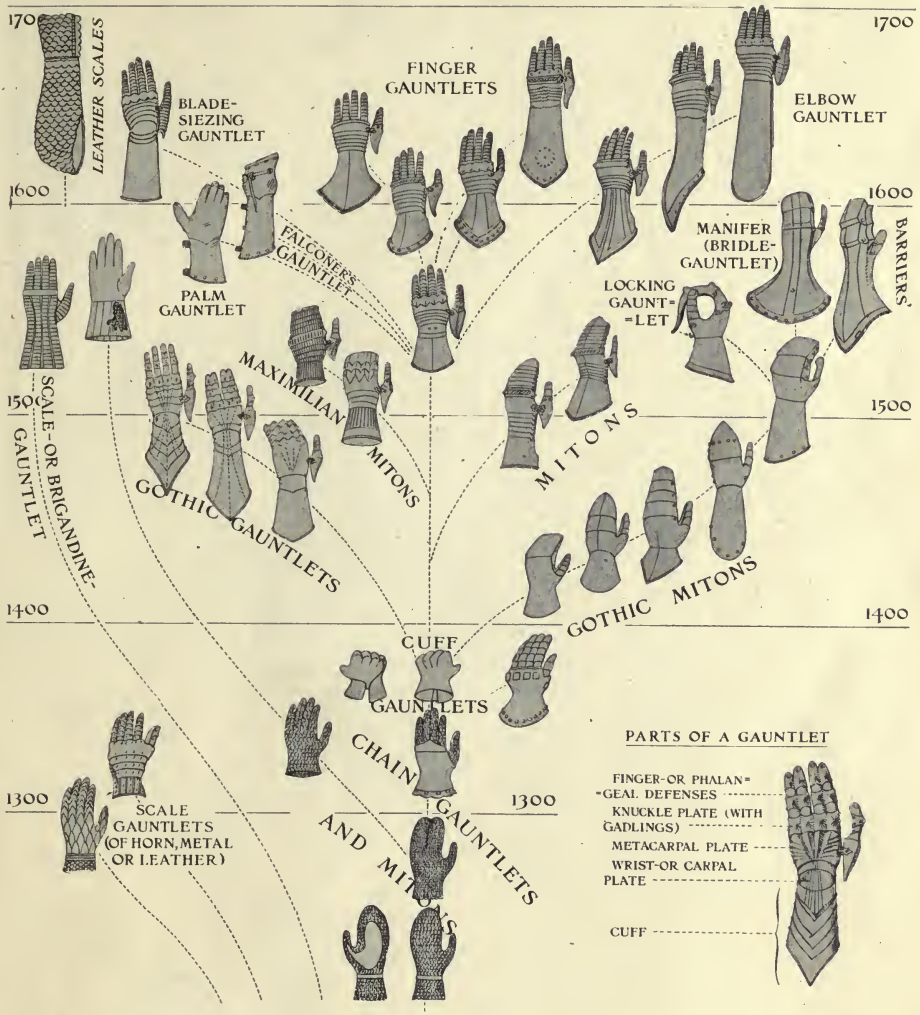


HELMETS
THEIR KINDS AND DEVELOPMENT DURING THE CENTURIES

BREASTPLATES
THE DEVELOPMENT OF THEIR COMMONER FORMS
DURING THE CENTURIES

BASHFORD DEAN, DIR

STANLEY J ROWLAND, DEL.



GAUNTLETS
THE DEVELOPMENT OF THEIR COMMONER FORMS
DURING THE CENTURIES

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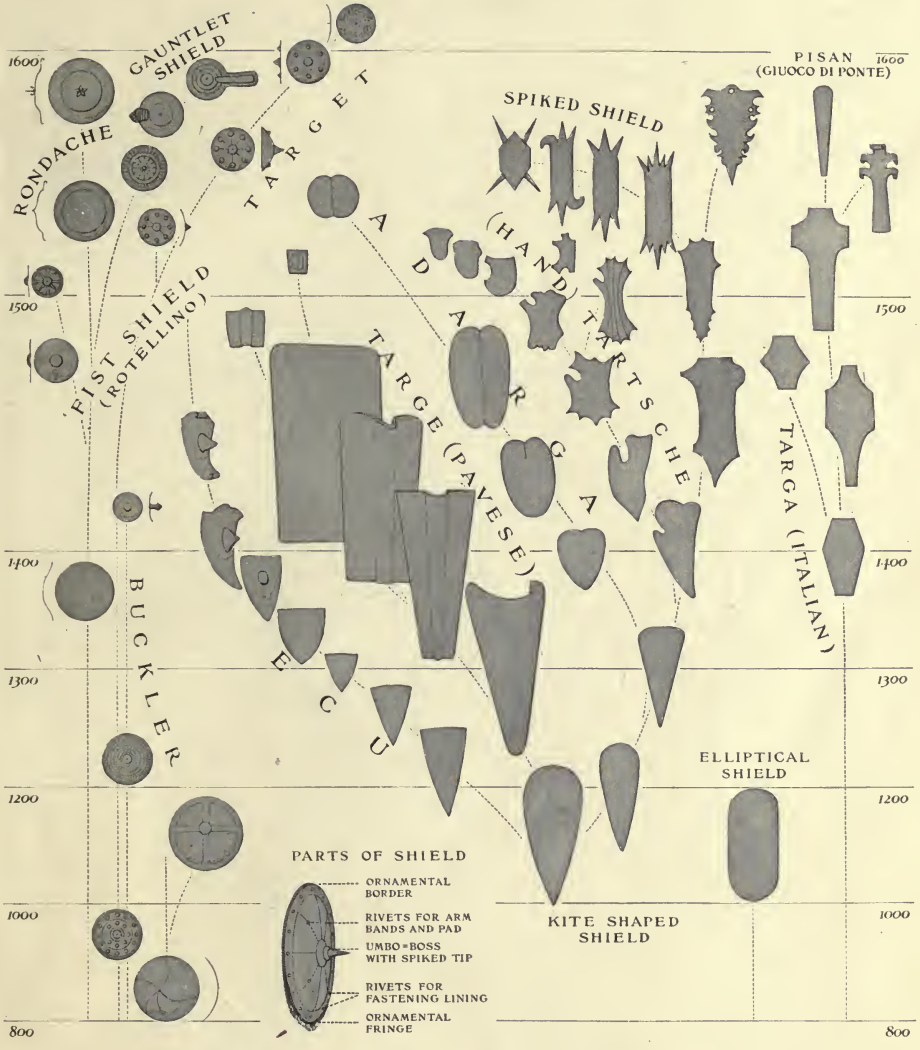
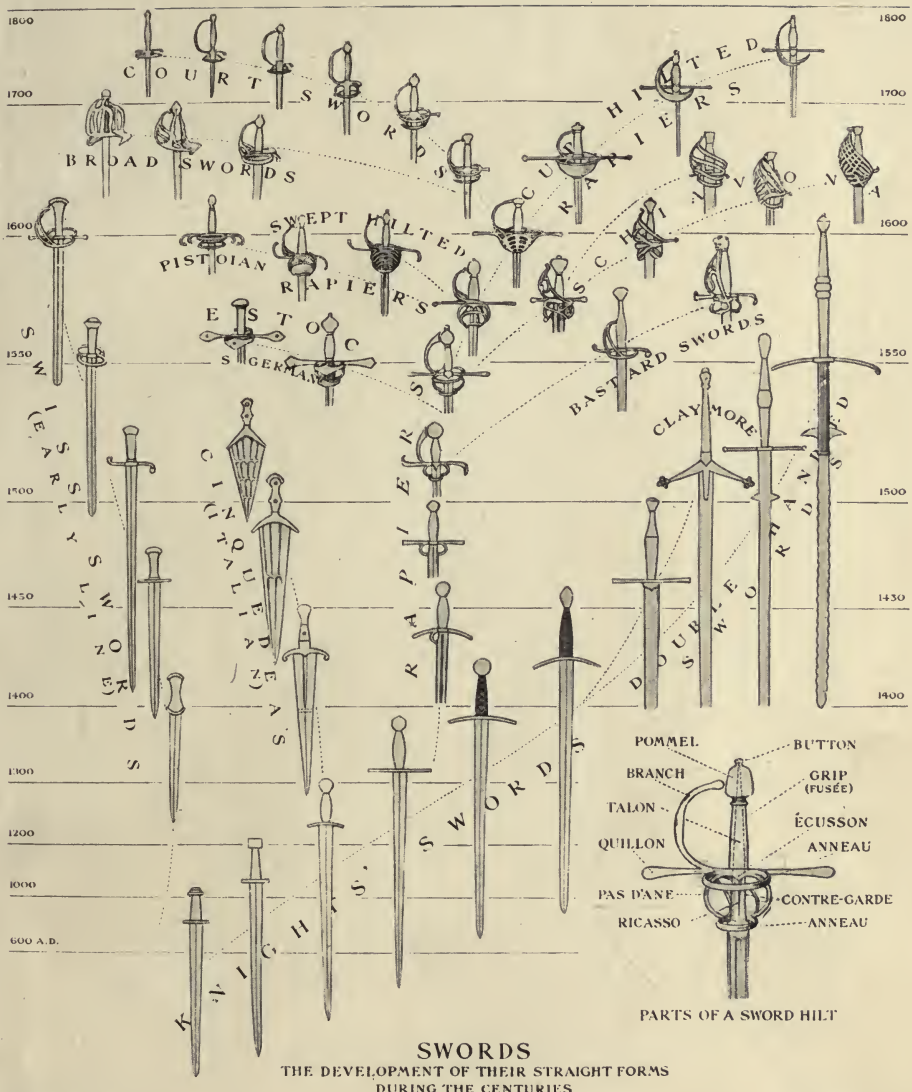


SHIELDS, THE DEVELOPMENT OF THEIR FORMS DURING THE CENTURIES

BASHFORD DEAN, DIR. HASHIME MURAYAMA, DEL.

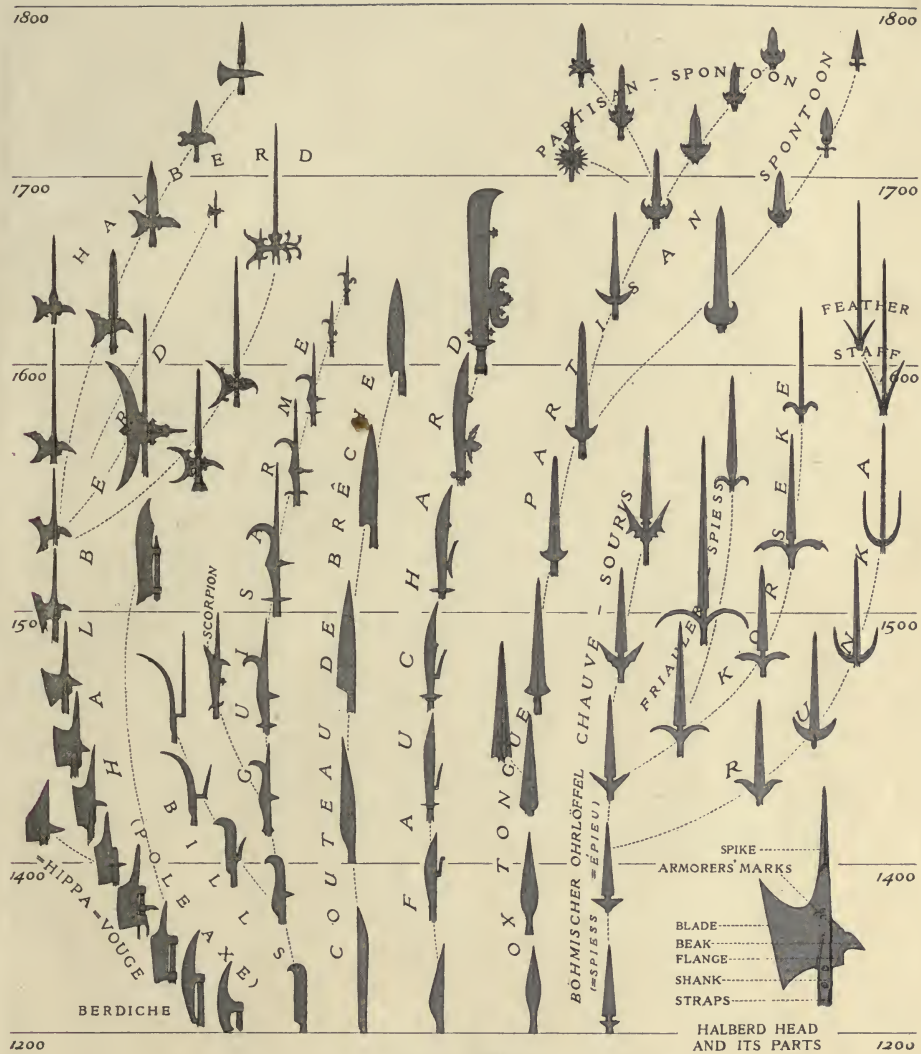


SWORDS

THE DEVELOPMENT OF THEIR STRAIGHT FORMS
DURING THE CENTURIES

BASHFORD DEAN DIR

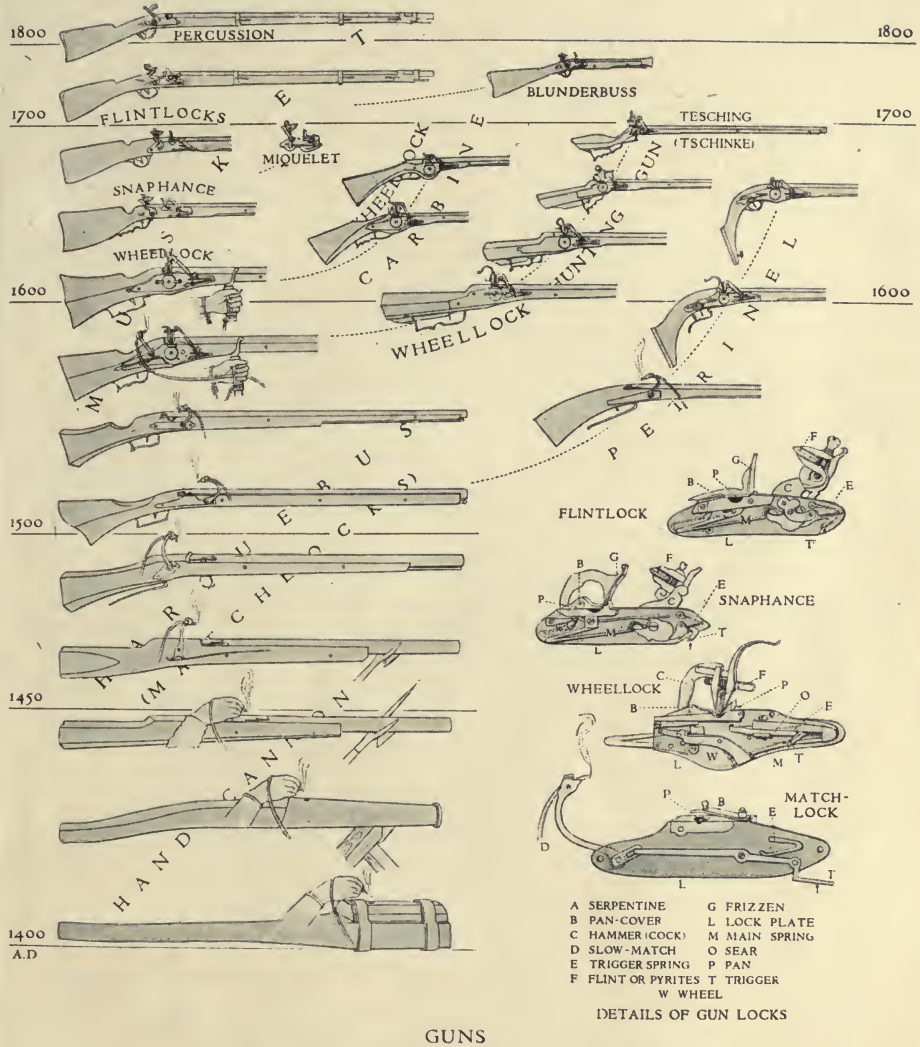
STANLEY J. ROWLAND, DEL.



POLE ARMS
THE DEVELOPMENT OF THEIR COMMONER FORMS
DURING THE CENTURIES

BASHFORD DEAN DIR

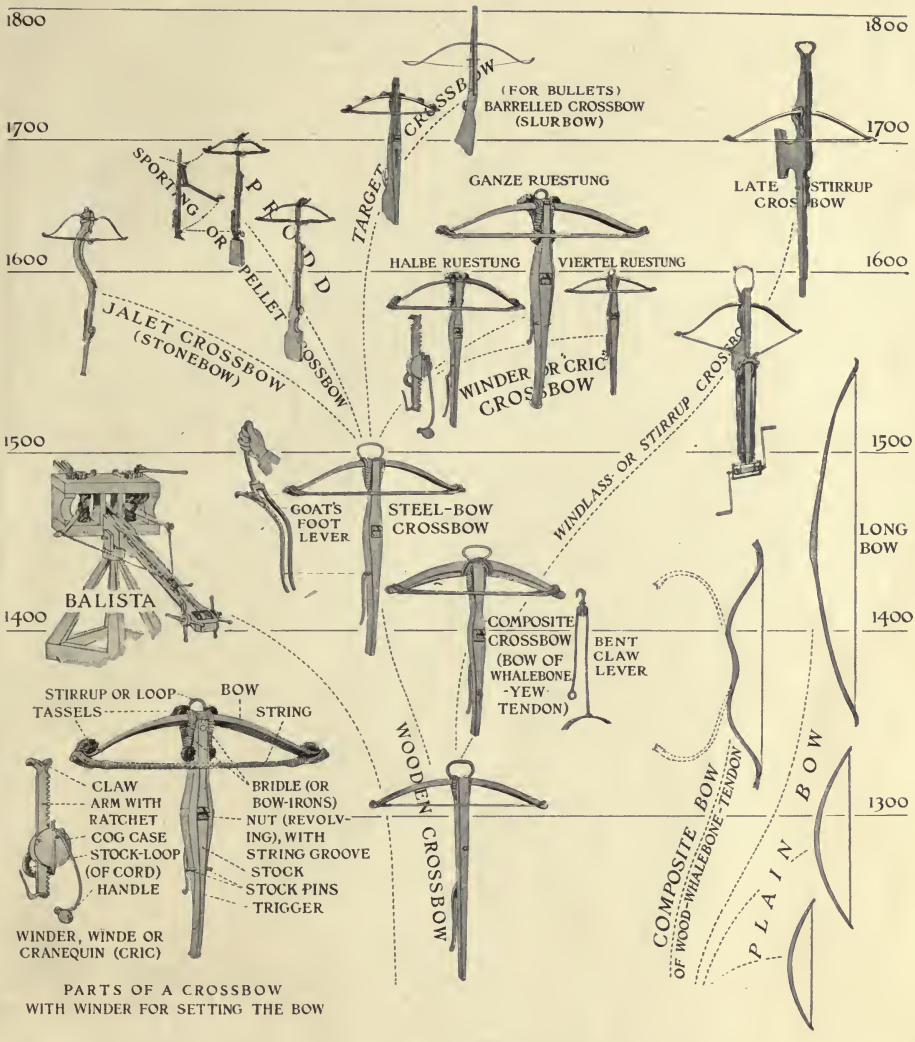
STANLEY J ROWLAND DEL



DETAILS OF GUN LOCKS

GUNS

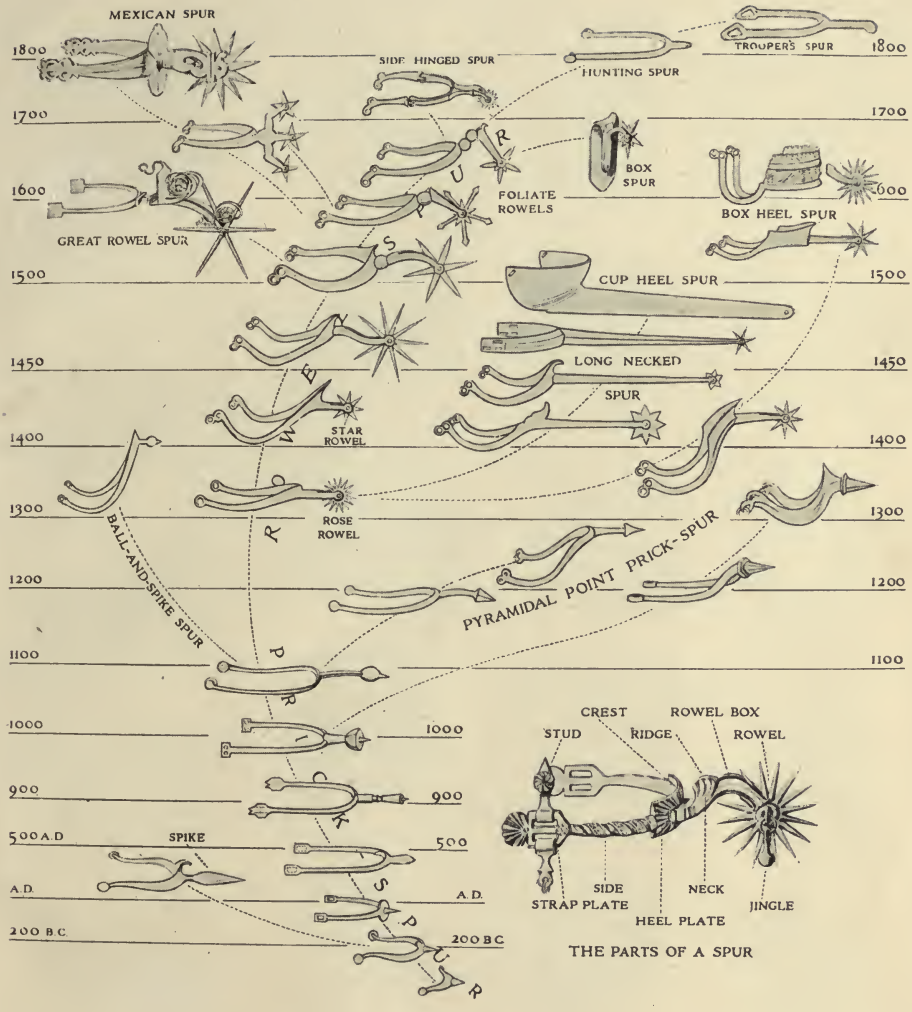
THE DEVELOPMENT OF THEIR COMMONER FORMS
DURING THE CENTURIES



PARTS OF A CROSSBOW
WITH WINDER FOR SETTING THE BOW

CROSSBOWS AND BOWS
THE DEVELOPMENT OF THEIR COMMONER FORMS DURING THE CENTURIES

BASHFORD DEAN, DIR. STANLEY J. ROWLAND, DEL.



SPURS

THE DEVELOPMENT OF THEIR COMMONER FORMS DURING THE CENTURIES

BASHFORD DEAN, DIR.

STANLEY J. ROWLAND, DEL.

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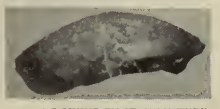
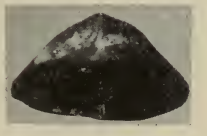
1. PLATE OF MACHINE-TOOL STEEL (13/100 in. thick) FROM WHICH HELMET IS MADE



2. PLATE GIVING FIRST CURVATURE CHALKLINE DENOTES FUTURE CREST

3. PLATE DEVELOPED BOWL SHAPED. NOTE DEEP MARKS OF HAMMER

4. BOWL ASSUMES CONICAL FORM



5. DOME OF HEAD AND CREST APPEAR

6. SIDES NOW DEVELOPED

7. MARGIN CUT OFF, OUTLINING FACE

8. NECK REGION ARISING

9. CRANIUM MODELLED. NOTE HAMMER MARKS INSIDE AND OUT

10. SIDE VIEW OF SOMEWHAT LATER STAGE

11. SIDES CUT OUT FOR FITTING CHEEK-PLATES

12. FRONT VIEW OF SIMILAR STAGE

13. CREST AND NECK REGION COMPLETED

14. CHEEK PIECES IN PLACE

15. VISOR AND VENTAIL ATTACHED

16. BOWL, CHEEK-PIECES, VISOR, AND VENTAIL IN PLACE

17. FILED AND POLISHED, BORDERS FINISHED, BANDS READY FOR DECORATION

18. READY FOR ETCHING. PATTERN PAINTED IN ACID-PROOF VARNISH

19. DECORATED BANDS FIRE-GILT. HELMET FINISHED

20. FRONT VIEW OF FINISHED HELMET WEIGHT 8½ POUNDS

21. SIDE VIEW OF FINISHED HELMET

PHOTOGRAPHS SHOWING HOW A HELMET IS MADE

1-13, BOWL HAMMERED OUT OF A SINGLE PIECE OF STEEL; 14-16, PARTS PUT TOGETHER; 17, FILED AND POLISHED; 18, READY FOR ETCHING; 19-21, FIRE-GILT AND FINISHED.

HELMET NOW IN GALLERY H-8 CASE 95, WORK BY D. TACHAUX, 1915, IN RESTORING THE MISSING HEAD-PIECE OF SCUDAMORE ARMOR.

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